

```
### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
***** HHHHHHHH SSSSSSSS?
### Status: Signing onto Dialog
*****
ENTER PASSWORD:
***** HHHHHHHH SSSSSSSS? *****
Password incorrect
### Status: Incorrect Account Password.

### Status: Incorrect Account Password.

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
***** HHHHHHHH SSSSSSSS?
### Status: Signing onto Dialog
*****
ENTER PASSWORD:
***** HHHHHHHH SSSSSSSS? *****
Welcome to DIALOG
### Status: Connected

Dialog level 02.12.60D

Last logoff: 03mar03 16:51:51
Logon file001 05mar03 11:54:57
    *** ANNOUNCEMENT ***
    ***
--File 515 D&B Dun's Electronic Business Directory is now online
completely updated and redesigned. For details, see HELP NEWS 515.
    ***
--File 990 - NewsRoom now contains October 2002 to present records.
File 993 - NewsRoom archive contains 2002 records from January 2002-
September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002
    ***
--Alerts have been enhanced to allow a single Alert profile to be
stored and run against multiple files. Duplicate removal is available
across files and for up to 12 months. The Alert may be run according
to the file's update frequency or according to a custom
calendar-based schedule. There are no additional prices for these
enhanced features. See HELP ALERT for more information.
    ***
--U.S. Patents Fulltext (File 654) has been redesigned with
new search and display features. See HELP NEWS 654 for
information.
    ***
--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.
    ***
--CLAIMS/US Patents (Files 340,341, 942) have been enhanced
with both application and grant publication level in a
single record. See HELP NEWS 340 for information.
    ***
--SourceOne patents are now delivered to your email inbox
```

as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

--Important news for public and academic libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***Dialog NewsRoom - Current 3-4 months (File 990)
***Dialog NewsRoom - 2002 Archive (File 993)
***Dialog NewsRoom - 2001 Archive (File 994)
***Dialog NewsRoom - 2000 Archive (File 995)
***TRADEMARKSCAN-Finland (File 679)
***TRADEMARKSCAN-Norway (File 678)
***TRADEMARKSCAN-Sweden (File 675)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

***D&B Dun's Electronic Business Directory (File 515)
***U.S. Patents Fulltext 1976-current (File 654)
***Population Demographics (File 581)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers (File 516)

REMOVED

***Chicago Tribune (File 632)
***Fort Lauderdale Sun Sentinel (File 497)
***The Orlando Sentinel (File 705)
***Newport News Daily Press (File 747)
***U.S. Patents Fulltext 1980-1989 (File 653)
***TOXNET data is added to ToxFile (F156)

New document supplier

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HIGHLIGHT set on as '**'

* * New CURRENT Year ranges installed **

File 1:ERIC 1966-2003/Feb 25
(c) format only 2003 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 73

05mar03 11:55:16 User259876 Session D473.1

\$0.33 0.095 DialUnits File1

\$0.33 Estimated cost File1

\$0.07 TELNET

\$0.40 Estimated cost this search

\$0.40 Estimated total session cost 0.095 DialUnits

SYSTEM:OS - DIALOG OneSearch
File 155:MEDLINE(R) 1966-2003/Mar W1

(c) format only 2003 The Dialog Corp.

File 5:Biosis Previews(R) 1969-2003/Feb W4

(c) 2003 BIOSIS

***File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.**

File 73:EMBASE 1974-2003/Feb W4

(c) 2003 Elsevier Science B.V.

***File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.**

Set Items Description

--- -----

?s (neurogenesis) and ((lateral (w) ventricles) or (ventricular (w) wall))

9859 NEUROGENESIS

306017 LATERAL

45572 VENTRICLES

5578 LATERAL (W) VENTRICLES

459049 VENTRICULAR

373352 WALL

13961 VENTRICULAR (W) WALL

S1 93 (NEUROGENESIS) AND ((LATERAL (W) VENTRICLES) OR (VENTRICULAR (W) WALL))

?s s1 and (vector or plasmid)

93 S1

200713 VECTOR

172581 PLASMID

S2 4 S1 AND (VECTOR OR PLASMID)

?rd

...completed examining records

S3 3 RD (unique items)

?t s3/3,k/all

3/3,K/1 (Item 1 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

13227416 BIOSIS NO.: 200100434565

Adenoviral brain-derived neurotrophic factor induces both neostriatal and olfactory neuronal recruitment from endogenous progenitor cells in the adult forebrain.

AUTHOR: Benraiss Abdellatif; Chmielnicki Eva; Lerner Kim; Roh Dongyon; Goldman Steven A(a)

AUTHOR ADDRESS: (a)Department of Neurology and Neuroscience, Cornell University Medical Center, 1300 York Avenue, Room E607, New York, NY, 10021: sgoldm@mail.med.cornell.edu**USA

JOURNAL: Journal of Neuroscience 21 (17):p6718-6731 September 1, 2001

MEDIUM: print

ISSN: 0270-6474

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: persist throughout the adult forebrain subependyma, and neurons generated from them respond to brain-derived neurotrophic factor (BDNF) with enhanced maturation and survival. To induce *neurogenesis* from endogenous progenitors, we overexpressed BDNF in the adult ventricular zone by transducing the forebrain ependyma to constitutively express BDNF. We constructed a bicistronic adenovirus...

...CMV) control, and humanized green fluorescent protein (hGFP) under internal ribosomal entry site (IRES) control. This AdCMV:BDNF:IRES:hGFP (AdBDNF) was injected into the *lateral* *ventricles* of adult rats, who were treated for 18 d thereafter with the mitotic marker bromodeoxyuridine (BrdU). Three weeks after injection, BDNF averaged 1 mug/gm in the CSF of AdBDNF-injected animals but was undetectable in

control CSF. In situ hybridization demonstrated BDNF and ³²P mRNA expression restricted to the *ventricular* *wall*. In AdBDNF-injected rats, the olfactory bulb exhibited a >2.4-fold increase in the number of BrdU+-betaIII-tubulin+ neurons, confirmed by confocal imaging...

...in the adult rat brain. The intraventricular delivery of, and ependymal infection by, viral vectors encoding neurotrophic agents may be a feasible strategy for inducing *neurogenesis* from resident progenitor cells in the adult brain.

DESCRIPTORS:

...ORGANISMS: gene *vector*;

MISCELLANEOUS TERMS: ...*neurogenesis* induction

3/3,K/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

12880787 BIOSIS NO.: 200100087936

Infection of the adult rat ventricular zone by an adenoviral BDNF *vector* induces neuronal recruitment to the striatum as well as to the olfactory bulb.

AUTHOR: Chmielnicki E(a); Benraiss A; Lerner K; Roh D; Goldman S A

AUTHOR ADDRESS: (a)Cornell Univ. Medical College, New York, NY**USA

JOURNAL: Society for Neuroscience Abstracts 26 (1-2):pAbstract No-2083 2000

MEDIUM: print

CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000

SPONSOR: Society for Neuroscience

ISSN: 0190-5295

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

Infection of the adult rat ventricular zone by an adenoviral BDNF *vector* induces neuronal recruitment to the striatum as well as to the olfactory bulb.

...ABSTRACT: cells persist in the forebrain subependyma, and neurons generated from them respond to brain-derived neurotrophic factor (BDNF) with enhanced maturation and survival. To induce *neurogenesis* from resident progenitors, we transduced the adult *ventricular* *wall* to overexpress BDNF. We constructed a DELTAE1 adenovirus bearing BDNF under CMV promoter control, in tandem with hGFP under IRES control. This AdCMV:bdnf:IRES:hgfp was injected into the *lateral* *ventricles* of adult rats, which were then injected intraperitoneally for 18 d with the mitotic marker BrdU (150 mug/g/d). 3 weeks after virus injection...

...striatal neurons were typically found in clusters, that were found almost exclusively in the AdBDNF-treated rats. Thus, a single injection of an adenoviral BDNF *vector* substantially augmented neuronal recruitment into the adult rat brain. The AdBDNF-associated neurons integrated not only into the normally neurogenic olfactory bulb, but also into the otherwise non-neurogenic neostriatum. As such, the intraventricular delivery of viral vectors encoding neurotrophins is a feasible strategy for inducing *neurogenesis* from resident neural progenitor cells. This may have particular implications in diseases of neostriatal degeneration, such as Huntington's disease.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...adenoviral BDNF *vector* {adenoviral brain-derived neurotrophic factor *vector*}--

MISCELLANEOUS TERMS: *neurogenesis*;

3/3,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

11135511 BIOSIS NO.: 199799756656

Synchrony of clonal cell proliferation and contiguity of clonally related cells: Production of mosaicism in the ventricular zone of developing mouse neocortex.

AUTHOR: Cai Li; Hayes Nancy L; Nowakowski Richard S(a)

AUTHOR ADDRESS: (a)Dep. Neurosci. Cell Biol., UMDNJ-Robert Wood Johnson Med. Sch., Piscataway, NJ 08854**USA

JOURNAL: Journal of Neuroscience 17 (6):p2088-2100 1997

ISSN: 0270-6474

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: zone (VZ) of the early developing mouse neocortex with a replication-incompetent retrovirus encoding human placental alkaline phosphatase (AP). The retrovirus was injected into the *lateral* *ventricles* on embryonic day 11 (E11), i.e., at the onset of neuronogenesis. Three days postinjection, on E14, a total of 259 AP-labeled clones of...

MISCELLANEOUS TERMS:GENE *VECTOR*; ...

...*LATERAL* *VENTRICLES*; ...

...*NEUROGENESIS*;

?ds

Set	Items	Description
S1	93	(NEUROGENESIS) AND ((LATERAL (W) VENTRICLES) OR (VENTRICULAR (W) WALL))
S2	4	S1 AND (VECTOR OR PLASMID)
S3	3	RD (unique items)
?s	s1 and ((neurotrophic (w) factor) or (neurotrophin))	
	93	S1
	30868	NEUROTROPHIC
	1911430	FACTOR
	21649	NEUROTROPHIC(W)FACTOR
	12212	NEUROTROPHIN
S4	5	S1 AND ((NEUROTROPHIC (W) FACTOR) OR (NEUROTROPHIN))
?rd		...completed examining records
	S5	3 RD (unique items)
?t	s5/3,k/all	

5/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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11345188 21408168 PMID: 11517261

Adenoviral brain-derived *neurotrophic* *factor* induces both neostriatal and olfactory neuronal recruitment from endogenous progenitor cells in the adult forebrain.

Braiess A; Chmielnicki E; Lerner K; Roh D; Goldman S A
Department of Neurology and Neuroscience, Cornell University Medical College, New York, New York 10021, USA.

Journal of neuroscience : the official journal of the Society for Neuroscience (United States) Sep 1 2001, 21 (17) p6718-31, ISSN 1529-2401 Journal Code: 8102140

Contract/Grant No.: P50HL59312; HL; NHLBI; R01NS29813; NS; NINDS; R01NS33106; NS; NINDS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Adenoviral brain-derived *neurotrophic* *factor* induces both neostriatal

and olfactory neuronal recruitment from endogenous progenitor cells in the adult forebrain.

Neural progenitor cells persist throughout the adult forebrain subependyma, and neurons generated from them respond to brain-derived *neurotrophic* *factor* (BDNF) with enhanced maturation and survival. To induce *neurogenesis* from endogenous progenitors, we overexpressed BDNF in the adult ventricular zone by transducing the forebrain ependyma to constitutively express BDNF. We constructed a bicistronic adenovirus...

... CMV) control, and humanized green fluorescent protein (hGFP) under internal ribosomal entry site (IRES) control. This AdCMV:BDNF:IRES:hGFP (AdBDNF) was injected into the *lateral* *ventricles* of adult rats, who were treated for 18 d thereafter with the mitotic marker bromodeoxyuridine (BrdU). Three weeks after injection, BDNF averaged 1 &mgr;g...

... in the CSF of AdBDNF-injected animals but was undetectable in control CSF. In situ hybridization demonstrated BDNF and GFP mRNA expression restricted to the *ventricular* *wall*. In AdBDNF-injected rats, the olfactory bulb exhibited a >2.4-fold increase in the number of BrdU(+) -betaIII-tubulin(+) neurons, confirmed by confocal imaging...

... in the adult rat brain. The intraventricular delivery of, and ependymal infection by, viral vectors encoding neurotrophic agents may be a feasible strategy for inducing *neurogenesis* from resident progenitor cells in the adult brain.

Descriptors: Brain-Derived *Neurotrophic* *Factor*--administration and dosage--AD; *Neostriatum--drug effects--DE; *Olfactory Bulb--drug effects--DE; *Prosencephalon--drug effects--DE; *Stem Cells--drug effects--DE; Adenoviridae--genetics--GE; Brain-Derived *Neurotrophic* *Factor*--biosynthesis--BI; Brain-Derived *Neurotrophic* *Factor*--genetics--GE; Bromodeoxyuridine; Cell Count; Cell Differentiation--drug effects--DE; Cell Line; Cell Movement--drug effects--DE; Cerebrospinal Fluid--metabolism--ME; Genes, Reporter; Genetic Vectors...

Chemical Name: Brain-Derived *Neurotrophic* *Factor*; Genetic Vectors; Luminescent Proteins; RNA, Messenger; green fluorescent protein; Bromodeoxyuridine

5/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

11345187 21408167 PMID: 11517260

Infusion of brain-derived *neurotrophic* *factor* into the lateral ventricle of the adult rat leads to new neurons in the parenchyma of the striatum, septum, thalamus, and hypothalamus.

Pencea V; Bingaman K D; Wiegand S J; Luskin M B

Department of Cell Biology, Emory University School of Medicine, Atlanta, Georgia 30322, USA.

Journal of neuroscience : the official journal of the Society for Neuroscience (United States) Sep 1 2001, 21 (17) p6706-17, ISSN 1529-2401 Journal Code: 8102140

Contract/Grant No.: R01 DC03190; DC; NIDCD

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Infusion of brain-derived *neurotrophic* *factor* into the lateral ventricle of the adult rat leads to new neurons in the parenchyma of the striatum, septum, thalamus, and hypothalamus.

The findings that brain-derived *neurotrophic* *factor* (BDNF) promotes in vitro the survival and/or differentiation of postnatal subventricular zone (SVZ) progenitor cells and increases in vivo the number of the newly ...

... moreover, in specific parenchymal structures lining the lateral and third ventricles, including the striatum and septum, as well as the thalamus and hypothalamus, in which *neurogenesis* had never been demonstrated previously during adulthood. In each region, newly generated cells expressed the neuronal marker microtubule-associated protein-2, or neuron-specific tubulin...

Descriptors: Brain-Derived *Neurotrophic* *Factor*--administration and dosage--AD; **Lateral* *Ventricles*--drug effects--DE; *Neurons --drug effects--DE; *Prosencephalon--drug effects--DE...; Corpus Striatum --cytology--CY; Corpus Striatum--drug effects--DE; Corpus Striatum --metabolism--ME; Hypothalamus--cytology--CY; Hypothalamus--drug effects --DE; Hypothalamus--metabolism--ME; Injections, Intraventricular; *Lateral* *Ventricles*--cytology--CY; *Lateral* *Ventricles*--metabolism --ME; Microtubule-Associated Proteins--biosynthesis--BI; Neurons--cytology --CY; Neurons--metabolism--ME; Phenotype; Prosencephalon--cytology--CY; Prosencephalon--metabolism--ME; Rats; Rats, Sprague-Dawley; Receptor...

Chemical Name: Antigens, Differentiation; Brain-Derived *Neurotrophic* *Factor*; Microtubule-Associated Proteins; Bromodeoxyuridine; Receptor, trkB

5/3,K/3 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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12880787 BIOSIS NO.: 200100087936

Infection of the adult rat ventricular zone by an adenoviral BDNF vector induces neuronal recruitment to the striatum as well as to the olfactory bulb.

AUTHOR: Chmielnicki E(a); Benraiss A; Lerner K; Roh D; Goldman S A

AUTHOR ADDRESS: (a)Cornell Univ. Medical College, New York, NY**USA

JOURNAL: Society for Neuroscience Abstracts 26 (1-2):pAbstract No-2083
2000

MEDIUM: print

CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000

SPONSOR: Society for Neuroscience

ISSN: 0190-5295

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: Neural progenitor cells persist in the forebrain subependyma, and neurons generated from them respond to brain-derived *neurotrophic* *factor* (BDNF) with enhanced maturation and survival. To induce *neurogenesis* from resident progenitors, we transduced the adult *ventricular* *wall* to overexpress BDNF. We constructed a DELTAE1 adenovirus bearing BDNF under CMV promoter control, in tandem with hGFP under IRES control. This AdCMV:bdnf:IRES:hgfp was injected into the *lateral* *ventricles* of adult rats, which were then injected intraperitoneally for 18 d with the mitotic marker BrdU (150 mug/g/d). 3 weeks after virus injection...

...bulb, but also into the otherwise non-neurogenic neostriatum. As such, the intraventricular delivery of viral vectors encoding neurotrophins is a feasible strategy for inducing *neurogenesis* from resident neural progenitor cells. This may have particular implications in diseases of neostriatal degeneration, such as Huntington's disease.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: BDNF {brain-derived *neurotrophic* *factor*};

...

...adenoviral BDNF vector {adenoviral brain-derived *neurotrophic* *factor* vector}

MISCELLANEOUS TERMS: *neurogenesis*;

?ds

Set Items Description
S1 93 (NEUROGENESIS) AND ((LATERAL (W) VENTRICLES) OR (VENTRICULAR (W) WALL))
S2 4 S1 AND (VECTOR OR PLASMID)
S3 3 RD (unique items)
S4 5 S1 AND ((NEUROTROPHIC (W) FACTOR) OR (NEUROTROPHIN))
S5 3 RD (unique items)
?s s1 and (treatment or therapy)
93 S1
4009394 TREATMENT
4616509 THERAPY
S6 13 S1 AND (TREATMENT OR THERAPY)
?s s6 and (Huntington or neurodegenerative)
13 S6
18533 HUNTINGTON
29226 NEURODEGENERATIVE
S7 2 S6 AND (HUNTINGTON OR NEURODEGENERATIVE)
?rd
...completed examining records
S8 2 RD (unique items)
?t s8/3,k/all

8/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

13366405 22027287 PMID: 12031272
Investigating the use of primary adult subventricular zone neural precursor cells for neuronal replacement therapies.
Lim Daniel A; Flames Nuria; Collado Lucia; Herrera Daniel G
Department of Psychiatry, Weill Medical College of Cornell University,
New York, NY 10021, USA.
Brain research bulletin (United States) Apr 2002, 57 (6) p759-64,
ISSN 0361-9230 Journal Code: 7605818
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

With the relatively recent discovery that *neurogenesis* persists throughout life in restricted regions of the adult mammalian brain, including those of human beings, there has been great interest in the use of...

Descriptors: Brain--growth and development--GD; *Brain Tissue Transplantation--methods--MT; *Brain Tissue Transplantation--trends--TD; *Neurodegenerative* Diseases--*therapy--TH; *Neurons--transplantation--TR; *Stem Cells--transplantation--TR; Brain--cytology--CY; Brain--physiology--PH; Cell Differentiation--physiology--PH; Cell Movement--physiology--PH; Graft Survival--physiology--PH; *Lateral* *Ventricles*--cytology--CY; *Lateral* *Ventricles*--growth and development--GD; *Lateral* *Ventricles*--physiology--PH; Neurons--cytology--CY; Neurons--physiology--PH; Stem Cells--cytology--CY; Stem Cells--physiology--PH

8/3,K/2 (Item 1 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

13227416 BIOSIS NO.: 200100434565
Adenoviral brain-derived neurotrophic factor induces both neostriatal and olfactory neuronal recruitment from endogenous progenitor cells in the adult forebrain.
AUTHOR: Benraiss Abdellatif; Chmielnicki Eva; Lerner Kim; Roh Dongyon; Goldman Steven A(a)
AUTHOR ADDRESS: (a) Department of Neurology and Neuroscience, Cornell

University Medical Center, 1300 York Avenue, Room E607, New York, NY,
10021: sgoldm@mail.med.cornell.edu**USA
JOURNAL: Journal of Neuroscience 21 (17):p6718-6731 September 1, 2001
MEDIUM: print
ISSN: 0270-6474
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

...ABSTRACT: persist throughout the adult forebrain subependyma, and neurons generated from them respond to brain-derived neurotrophic factor (BDNF) with enhanced maturation and survival. To induce *neurogenesis* from endogenous progenitors, we overexpressed BDNF in the adult ventricular zone by transducing the forebrain ependyma to constitutively express BDNF. We constructed a bicistronic adenovirus...

...CMV) control, and humanized green fluorescent protein (hGFP) under internal ribosomal entry site (IRES) control. This AdCMV:BDNF:IRES:hGFP (AdBDNF) was injected into the *lateral* *ventricles* of adult rats, who were treated for 18 d thereafter with the mitotic marker bromodeoxyuridine (BrdU). Three weeks after injection, BDNF averaged 1 mug/gm in the CSF of AdBDNF-injected animals but was undetectable in control CSF. In situ hybridization demonstrated BDNF and GFP mRNA expression restricted to the *ventricular* *wall*. In AdBDNF-injected rats, the olfactory bulb exhibited a >2.4-fold increase in the number of BrdU+-betaIII-tubulin+ neurons, confirmed by confocal imaging, relative to AdNull (AdCMV:hGFP) controls. Importantly, AdBDNF-associated neuronal recruitment to the neostriatum was also noted, with the *treatment*-induced addition of BrdU+-NeuN+-betaIII-tubulin+ neurons to the caudate putamen. Many of these cells also expressed glutamic acid decarboxylase, cabindin-D28, and DARPP...

...in the adult rat brain. The intraventricular delivery of, and ependymal infection by, viral vectors encoding neurotrophic agents may be a feasible strategy for inducing *neurogenesis* from resident progenitor cells in the adult brain.

DESCRIPTORS:

DISEASES: *Huntington*'s disease...

...METHODS & EQUIPMENT: gene *therapy*--

MISCELLANEOUS TERMS: ...*neurogenesis* induction

ALTERNATE INDEXING: *Huntington*'s Disease (MeSH)

?ds

Set	Items	Description
S1	93	(NEUROGENESIS) AND ((LATERAL (W) VENTRICLES) OR (VENTRICULAR (W) WALL))
S2	4	S1 AND (VECTOR OR PLASMID)
S3	3	RD (unique items)
S4	5	S1 AND ((NEUROTROPHIC (W) FACTOR) OR (NEUROTROPHIN))
S5	3	RD (unique items)
S6	13	S1 AND (TREATMENT OR THERAPY)
S7	2	S6 AND (HUNTINGTON OR NEURODEGENERATIVE)
S8	2	RD (unique items)

?s s6 and review

13 S6

1321926 REVIEW

S9 4 S6 AND REVIEW

?rd

...completed examining records

S10 2 RD (unique items)

?t s10/3,k/all

10/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

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13366406 22027288 PMID: 12031273

The proliferative ventricular zone in adult vertebrates: a comparative study using reptiles, birds, and mammals.

Garcia-Verdugo Jose Manuel; Ferron Sacri; Flames Nuria; Collado Lucia; Desfilis Ester; Font Enrique

Departamento de Biología Celular, Facultad de Ciencias Biológicas, Universidad de Valencia, Valencia, Spain. j.manuel.garcia@uv.es

Brain research bulletin (United States) Apr 2002, 57 (6) p765-75, ISSN 0361-9230 Journal Code: 7605818

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Although evidence accumulated during the last decades has advanced our understanding of adult *neurogenesis* in the vertebrate brain, many aspects of this intriguing phenomenon remain controversial. Here we *review* the organization and cellular composition of the *ventricular* *wall* of reptiles, birds, and mammals in an effort to identify differences and commonalities among these vertebrate classes. Three major cell types have been identified in...

... Type B) cells, and ependymal (Type E) cells. Cells similar anatomically and functionally to Types A, B, and E have also been described in the *ventricular* *wall* of mammals, which contains an additional cell type (Type C) not found in reptiles or birds. The bulk of the evidence points to a role...

... neural precursors (stem cells) in the three classes of living amniotic vertebrates. This finding may have implications for the development of strategies for the possible *treatment* of human neurological disorders.

Descriptors: Birds--growth and development--GD; *Cell Differentiation--physiology--PH; *Cell Division--physiology--PH; **Lateral* *Ventricles*--growth and development--GD; *Mammals--growth and development--GD; *Reptiles--growth and development--GD; *Stem Cells--ultrastructure--UL; *Telencephalon--growth and development--GD; Birds--anatomy and histology--AH; Birds--metabolism--ME; Ependyma--metabolism--ME; Ependyma--ultrastructure--UL; *Lateral* *Ventricles*--metabolism--ME; *Lateral* *Ventricles*--ultrastructure--UL; Mammals--anatomy and histology--AH; Mammals--metabolism--ME; Neurons--metabolism--ME; Neurons--ultrastructure--UL; Reptiles--anatomy and histology--AH; Reptiles--metabolism--ME; Stem ...

10/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

13366405 22027287 PMID: 12031272

Investigating the use of primary adult subventricular zone neural precursor cells for neuronal replacement therapies.

Lim Daniel A; Flames Nuria; Collado Lucia; Herrera Daniel G

Department of Psychiatry, Weill Medical College of Cornell University, New York, NY 10021, USA.

Brain research bulletin (United States) Apr 2002, 57 (6) p759-64, ISSN 0361-9230 Journal Code: 7605818

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

With the relatively recent discovery that *neurogenesis* persists throughout life in restricted regions of the adult mammalian brain, including those of human beings, there has been great interest in the use of...

...neural stem cells for **neuronal** replacement. There are **many** great hurdles that must be overcome in order for such replacement strategies to succeed. In this ***review***, we outline some of these hurdles and discuss recent experiments that investigate the potential of using neural precursor cells found in the subventricular zone of...

Descriptors: Brain--growth and development--GD; *Brain Tissue Transplantation--methods--MT; *Brain Tissue Transplantation--trends--TD; *Neurodegenerative Diseases--*therapy--TH; *Neurons--transplantation--TR; *Stem Cells--transplantation--TR; Brain--cytology--CY; Brain--physiology --PH; Cell Differentiation--physiology--PH; Cell Movement--physiology--PH; Graft Survival--physiology--PH; *Lateral* *Ventricles*--cytology--CY; *Lateral* *Ventricles*--growth and development--GD; *Lateral* *Ventricles*--physiology--PH; Neurons--cytology--CY; Neurons--physiology--PH; Stem Cells--cytology--CY; Stem Cells--physiology--PH

?ds

Set	Items	Description
S1	93	(NEUROGENESIS) AND ((LATERAL (W) VENTRICLES) OR (VENTRICULAR (W) WALL))
S2	4	S1 AND (VECTOR OR PLASMID)
S3	3	RD (unique items)
S4	5	S1 AND ((NEUROTROPHIC (W) FACTOR) OR (NEUROTROPHIN))
S5	3	RD (unique items)
S6	13	S1 AND (TREATMENT OR THERAPY)
S7	2	S6 AND (HUNTINGTON OR NEURODEGENERATIVE)
S8	2	RD (unique items)
S9	4	S6 AND REVIEW
S10	2	RD (unique items)

?logoff

05mar03 12:02:50 User259876 Session D473.2
\$2.15 0.673 DialUnits File155
\$1.05 5 Type(s) in Format 3
\$1.05 5 Types
\$3.20 Estimated cost File155
\$3.16 0.564 DialUnits File5
\$8.75 5 Type(s) in Format 3
\$8.75 5 Types
\$11.91 Estimated cost File5
\$7.51 0.834 DialUnits File73
\$7.51 Estimated cost File73
OneSearch, 3 files, 2.071 DialUnits FileOS
\$1.86 TELNET
\$24.48 Estimated cost this search
\$24.88 Estimated total session cost 2.166 DialUnits

Status: Signed Off. (8 minutes)